| POSITION                  | INITIALS | ID NO. | DATE                                  |  |  |  |  |
|---------------------------|----------|--------|---------------------------------------|--|--|--|--|
| FEE DETERMINATION         |          |        | · · · · · · · · · · · · · · · · · · · |  |  |  |  |
| O.I.P.E. CLASSIFIER       | 11 2     | 45-    | 1/18                                  |  |  |  |  |
| FORMALITY REVIEW          | 1        |        | 1//3                                  |  |  |  |  |
| RESPONSE FORMALITY REVIEW |          |        |                                       |  |  |  |  |
|                           | ) t      |        | 12-11-                                |  |  |  |  |

## **INDEX OF CLAIMS**

| ~ | Rejected                   | N   | Non-elected  |
|---|----------------------------|-----|--------------|
| = | Allowed                    | - 1 | Interference |
| _ | (Through numeral) Canceled | Α   | Appeal       |
| ÷ | Restricted                 | 0   | Objected     |

|          |          |                    |                   |  |            | ÷        |  |               |  |          |          |               |          |          |          | - Cu     |          |          |              | 0        |                |          |  |          |     |       | . Objec    |          | _        |         |          |                 |              |              |                |                |
|----------|----------|--------------------|-------------------|--|------------|----------|--|---------------|--|----------|----------|---------------|----------|----------|----------|----------|----------|----------|--------------|----------|----------------|----------|--|----------|-----|-------|------------|----------|----------|---------|----------|-----------------|--------------|--------------|----------------|----------------|
| CI       | aim      | Ĺ                  | _                 | _  |            | Da       | te   |               |  |          |          | 1             | Cla      | aim      |          |          |          |          | Da           | te       |                | _        | _  |          |     | Cla   | im         |          | _        |         | Dat      | ę               |              | _            |                | _              |
| Final    |          | 3                  | 6                 |  |            |          |  |               |  |          |          |               | Final    | Original |          |          |          |          |              |          |                |          |  |          |     | Final | Original   |          |          |         |          |                 |              |              |                |                |
| L        | O        | Ľį,                | X                 | 7  | _          | L        | ot   | L             | ↓_   | 1_       | L        | 1             | _        | 51       |          | L        | _        |          | <u> </u>     |          | _              |          |  | Ш        | 1   |       | 101        |          |          |         |          |                 |              |              |                |                |
| ٤.       | 2        | Ų                  | 1                 | <u>Ł</u>                                     | <u>L</u> . | L        | $\vdash$   | ┡             | ↓_   | ┡        | L        |               | <u> </u> | 52       |          |          | _        | L        |              |          |                |          |  |          |     |       | 102        |          |          |         |          | _               | _]           |              |                |                |
| 1        | 3        | $\mid \mathcal{L}$ | 12                | <u> </u>                                     | _          | <u> </u> | _  | <u> </u>      | ļ  | _        | L        | 1             |          | 53       |          | _        |          |          |              |          |                |          |  | Ц        | -   |       | 103        | L_       | Щ        |         |          |                 |              |              |                | _              |
| $\vdash$ | 4        | μ.                 | 44                | Ł  | _          | ├-       | -  | -             |  | $\vdash$ | ├-       | -             | $\vdash$ | 54<br>55 |          |          | <u> </u> | <u> </u> | -            | ļ        | _              |          |  | Н        | - } |       | 104        |          |          |         |          | _               | 4            |              | لـــا          | <u> </u>       |
| <u>_</u> | 5        | 1                  | 1                 | -  | -          | ⊢        | -  | ├             | ├-   | -        | ╀        | -             | -        | 56       | _        | _        | -        |          | -            |          | _              |          | -  | Н        | ŀ   |       | 105        | _        |          |         | _        |                 | $\dashv$     |              |                |                |
| ⊣        | 7        | +                  | 0                 | Γ-   | -          | -        | ļ  | <b> -</b>     | ┢  | ┢        | ┼-       | 1             | -        | 57       |          |          | $\vdash$ |          | -            | -        | _              |          |  | Н        | ŀ   |       | 106<br>107 |          | -        |         | -        | $\dashv$        |              | $\dashv$     |                | -              |
| $\vdash$ | 8        | H                  | V                 |  |            | -        |  | -             | -  | +-       | ╁        | 1             | -        | 58       |          | _        | -        | _        | $\vdash$     |          |                | _        |  | -        | ŀ   | _     | 108        | _        | H        | -       | -        |                 |              | $\dashv$     | $\vdash$       | -              |
| ┝        | 9        | 1                  | †                 |  | H          |          | +  |               |  | $\vdash$ | +-       | 1             | -        | 59       |          | _        | -        | -        | -            |          | -              |          | -  | Н        |     |       | 109        | -        |          |         | $\dashv$ | $\dashv$        | $\dashv$     |              | -              | _              |
| $\vdash$ | 10       | H                  | 1                 | $\vdash$                                     | -          |          | $\vdash$   | $\vdash$      | 1  | 1        | +        | 1             | $\vdash$ | 60       |          |          |          | -        | ┢            | _        |                |          | -  | Н        | ŀ   |       | 110        | $\vdash$ |          | -       | $\dashv$ | $\dashv$        | -            | $\dashv$     | -              | -              |
| H        | 0        | H                  | Ħ                 |  | Н          |          | 十  | $\vdash$      | t  | -        | +        | 1             | $\vdash$ | 61       |          |          |          | -        | $\vdash$     | _        |                | _        | $\vdash$   | Н        | - 1 | _     | 111        | $\vdash$ |          | H       | $\dashv$ | $\dashv$        | $\dashv$     | - 1          |                | -              |
|          | 12       | $\dagger$          | $\dagger \dagger$ | $\vdash$                                     | _          | _        | <del>                                     </del> | _             | <del>                                     </del> | T        |          | 1             |          | 62       |          | _        |          |          |              |          |                |          |  | Н        |     |       | 112        |          |          |         | $\dashv$ | $\dashv$        | $\dashv$     | $\dashv$     |                | -              |
|          | 13       | H                  | 11                |  |            |          |  | $\vdash$      | Г  | T        |          | 1             |          | 63       | _        |          |          |          |              | _        |                |          | -  | H        | ŀ   | _     | 113        | -        |          |         |          |                 | _            |              | -              | -              |
|          | 13       | It                 | 11                |  | _          | T        |  |               |  |          | T        | 1             |          | 64       |          |          |          |          | $\vdash$     |          |                |          |  | Н        | ŀ   |       | 114        |          |          |         |          | $\dashv$        | $\dashv$     |              | П              |                |
| 1        | 15       | Т                  | 11                |  |            |          | Γ  | Г             | Τ  |          | Ī        | 1             |          | 65       |          |          |          |          |              |          |                |          |  | П        | Ī   |       | 115        |          |          |         |          |                 |              | $\neg$       |                | Γ              |
|          | 16       |                    | П                 |  |            |          |  |               |  |          | Γ        | 1             |          | 66       |          |          |          |          |              |          |                |          |  | П        |     |       | 116        |          |          |         | _        |                 | $\neg$       |              |                | <u> </u>       |
|          | 17       | V                  | V                 |  |            |          |  |               |  |          |          |               |          | 67       |          |          |          |          |              |          |                |          |  |          | [   |       | 117        |          |          |         |          |                 |              |              |                |                |
| L        | 18       |                    | Ľ                 |  |            |          | _  |               |  |          |          |               |          | 68       |          |          |          |          |              |          |                |          |  |          |     |       | 118        |          |          |         |          |                 |              |              |                |                |
| L        | 19       |                    | L                 |  |            | _        |  | <u> </u>      | <u> </u>   | L        |          | ]             |          | 69       |          |          |          | L        | L_           |          |                |          |  |          | - 1 |       | 119        |          |          |         |          |                 |              |              |                |                |
| l        | 20       |                    |                   |  |            | İ.,      |  |               |  |          |          |               | L        | 70       |          |          | ,        |          |              |          |                |          |  |          |     |       | 120        | Ì        |          |         |          |                 | .            |              |                |                |
|          | 21       |                    |                   |  |            |          |  |               |  |          |          | ]             |          | 71       |          |          |          |          |              |          |                |          |  |          |     |       | 121        |          |          |         |          |                 |              |              |                |                |
| L        | 22       |                    |                   |  |            |          |  | L             | L  |          |          |               | L        | 72       |          |          |          |          |              |          |                |          |  |          |     |       | 122        |          |          |         |          |                 |              |              |                |                |
| _        | 23       |                    | <u> </u>          |  |            |          | L  | _             | _  | <u> </u> | _        |               |          | 73       | _        | _        |          | _        |              |          |                |          |  | Ш        | ļ   |       | 123        |          |          |         |          |                 |              |              |                | <u> </u> _     |
| Ŀ        | 24       | _                  | ـــــ             | <u> </u>                                     |            | <u> </u> | <u> </u>   | <u> </u>      | lacksquare                                       | _        | _        |               | L        | 74       |          |          | L        |          | L_           | L_       |                |          |  | L        |     | _     | 124        | L.       | L        |         |          | Ш               |              | Ш            | _              | _              |
| -        | 25       | _                  |                   |  |            |          | ļ.,  | <u> </u>      | -  | -        |          | <u>ا</u> ۔    | L        | 75       |          |          | _        | -        | ļ            | -        | <u> </u>       | _        | _  | Ш        |     |       | 125        | ļ        |          |         | _        | $\square$       |              |              |                | <u>.</u>       |
| -        | 26       | -                  | <u> </u>          | ·  | ·          | L        | _  | <u> </u>      | L  | -        | ┞        | ļ <sup></sup> | L        | 76       |          |          | _        | _        | <u> </u>     | <u> </u> | _              |          |  | Ш        |     |       | 126        | L        | _        |         | Ĺ        | Ш               | i.           |              |                | -              |
| Ŀ        | 27       | _                  | ╄                 | <u>                                     </u> | -          |          | -  | _             | ⊢  | ┡        | ┡        | -             | <u> </u> | 77       |          |          |          |          |              |          | _              | _        | <u> </u>   | Н        | ļ   |       | 127        |          |          | _       |          | ┝╼┦             |              |              | -              | ļ.,            |
| ŀ        | 28<br>29 | _                  | ₩                 | <u> </u>                                     | _          | ├        | ├-   | ├             | ⊢  | -        | <b>-</b> | -             | $\vdash$ | 78<br>79 | _        | <u> </u> | -        |          |              |          |                | <u> </u> | L  | Н        | ļ   |       | 128<br>129 |          | <u> </u> | _       | _        | $\vdash \vdash$ | $\vdash$     | $\vdash$     | -              | -              |
| ⊢        | 30       | _                  | ⊢                 | -  |            | ├        | $\vdash$   | ⊢             | ├  | -        | ┢        | -             | -        | 80       |          | -        | <u> </u> | _        | <del> </del> | _        | -              | -        | ⊢  | Н        | ŀ   |       | 130        | ₽-       | <u> </u> |         |          | Ш               |              |              | ⊢              | -              |
| -        | 31       |                    | ┢                 |  | H          |          | ├-   | <del> -</del> | ╁  | -        | ╁        | 1             | -        | 81       |          | -        | ├—       | <u> </u> | ┝            | ⊢        | <del> </del> — | <u> </u> | ⊢  | Н        | ŀ   |       | 131        | -        |          | -       |          |                 |              |              | ├              | $\vdash$       |
| ļ-       | 32       | -                  | ├-                | -  | -          | -        | ┢  | -             | -  | -        | -        | ┨             | -        | 82       |          | -        | -        | -        |              | _        |                | $\vdash$ | ├  | Н        | -   |       | 132        | $\vdash$ | -        |         | -        |                 | -            | <del> </del> | ├              | ┝              |
| $\vdash$ | 33       | -                  | +-                |  | -          | -        | ╁─   | ┢             | -  | +-       | +-       | 1             | -        | 83       | _        | -        | $\vdash$ |          | ┢            | -        |                | -        | $\vdash$   | H        |     | -     | 133        | $\vdash$ | $\vdash$ | -       | -        | H               |              | -            | -              | ┢              |
| H        | 34       | -                  | ╁╌                | _  |            |          | H  | ╁╌            | -  | ╁        | ╁╌       | 1             | $\vdash$ | 84       |          |          | -        |          | -            |          |                | -        | $\vdash$   | $\vdash$ | }   |       | 134        | $\vdash$ |          |         |          |                 |              |              | <del> </del>   | <del> </del> — |
| Г        | 35       |                    | $\vdash$          |  | $\vdash$   |          | 一  |               | -  | <u> </u> | ┢        | 1             | -        | 85       | _        |          | <u> </u> | ┢        |              |          |                | -        | $\vdash$   | Н        |     |       | 135        |          |          |         | _        |                 | Г            |              | <del> </del> - | -              |
| Г        | 36       |                    | ┢                 | i —  |            | $\vdash$ | 1  |               | 1  | 1        | T        | 1             |          | 86       |          | $\vdash$ |          |          |              |          | -              |          | <del>                                     </del> | Н        |     |       | 136        | -        | $\vdash$ |         |          | М               | М            |              | Ι-             | -              |
| Г        | 37       |                    | T-                | $\vdash$                                     |            | T        | T  | ļ ·           |  | T        | T        | 1             |          | 87       |          |          |          |          |              | İ        | i -            | i        | $\vdash$   |          | İ   |       | 137        | -        | 一        |         |          |                 |              |              |                | Г              |
|          | 38       |                    |                   |  |            |          | T  | 1             | $\vdash$   | T        | T        | 1             |          | 88       |          | Г        |          | Γ        | Τ            |          |                |          | П  | $\Box$   | İ   |       | 138        | Г        | Γ        |         | !        | Г               | $\Box$       | Γ            |                |                |
| $\Box$   | 39       |                    |                   |  |            |          |  | Γ             |  | Π        | Г        |               |          | 89       |          |          | 1        |          |              |          |                |          |  | П        | İ   |       | 139        |          |          |         |          |                 |              |              | Г              | Ĺ              |
|          | 40.      |                    | Г                 | Γ  |            |          | Π  |               |  | Γ        | Π        | ]             |          | 90       |          |          | Γ        |          |              |          |                |          | _  | Γ,       | İ   |       | 140        |          |          | ľ       |          | П               | П            | Г            | Γ              | Ī              |
| Γ        | 41       |                    | Т                 |  |            | Г        |  | Γ             |  | T        | T        | 1             |          | 91       |          | Г        | Γ        |          |              |          | i              | Γ        | Г  |          | İ   |       | 141        | Π        | Γ        | Г       |          | П               | П            |              | Г              | Γ              |
| Г        | 42       |                    | $\Box$            |  | Т          |          |  |               |  | T        | T        | 1             |          | 92       |          | Г        | $\vdash$ |          | $\vdash$     |          |                |          | Ť  | Г        | Ì   |       | 142        | Г        | Г        | Г       | _        |                 |              |              | -              | Т              |
|          | 43       |                    |                   |  |            | Г        | Г  |               | Г  | T        | T        | 1             |          | 93       |          |          | Γ        |          | Г            | Γ        | Г              |          |  |          | Ì   |       | 143        |          | Γ        | Ī.,     |          |                 | $\Box$       |              |                | Γ              |
|          | 44       |                    |                   |  |            |          |  |               | Γ  | Γ        | Τ        | 1             |          | 94       | Г        | Г        | Γ        | <u> </u> | Γ            |          | Γ              |          | Π  | П        | ı   |       | 144        | Γ        |          |         |          |                 |              |              | L              | Γ              |
|          | 45       |                    |                   |  |            |          |  |               |  | Γ        | Γ        | ]             |          | 95       |          |          | Π        |          |              |          |                | Г        | Γ  |          | 1   |       | 145        |          |          |         |          |                 |              |              |                |                |
|          | 46       |                    | $\Gamma$          |  |            |          |  |               |  |          |          | ]             |          | 96       |          |          | L        |          |              |          |                |          |  |          |     |       | 146        |          |          |         |          |                 |              |              |                |                |
|          | 47       |                    |                   |  |            |          |  |               |  |          |          |               |          | 97       |          |          |          | Г        | Г            | Γ        | <u> </u>       | Ī.,      |  |          | 1   |       | 147        |          |          |         |          |                 |              |              |                |                |
| 匚        | 48       |                    | $\Box$            |  |            |          |  |               |  |          |          | 1             |          | 98       |          |          |          |          |              |          |                |          |  |          |     | _     | 148        |          |          |         |          |                 |              |              | $\perp$        | -              |
| L        | 49       |                    |                   |  | Ĺ          | Ĺ        |  | L             | L  | 匚        | L        | 1             |          | 99       | 匚        |          | 匚        |          |              |          |                |          | oxdot  |          | Į.  |       | 149        | <u> </u> | L        | <u></u> | _        | $\Box$          | $oxed{oxed}$ | _            | _              | L              |
| <u>_</u> | 50       | _                  | $\perp$           |  |            |          | 乚  | <u> </u>      | <u> </u>   | L        |          | J             | L.       | 100      | <u> </u> |          |          | oxdot    | 1            | <u></u>  | <u> </u>       | <u> </u> |  | Ш        | Į   |       | 150        | <u>!</u> |          | L.      | _        | Ш               | ш            | <u></u>      | <u> </u>       | L              |

If more than 150 claims or 10 actions staple additional sheet here

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